

# *Workshop in Methods*

## **Advanced Topics in R**

**Jefferson Davis, Hui Zhang, and Scott Michael**

*Research Analytics*

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In this follow up workshop to “Introduction to R,” researchers will have the opportunity for a deeper dive into R. Available on all IU’s supercomputers, R is a flexible open source statistical programming language that can work with large and complex data sets. This workshop will address several advanced topics in R as well as giving participants the opportunity to use R on IU’s supercomputers. The topics to be covered include: R scripting on IU supercomputers; debugging, profiling, and performance analysis of R code; parallel programming in R, including the Rmpi and snowfall packages; and advanced plotting in R. Participants will have access to the



supercomputer Big Red II during the session and will be able to see hands-on examples of running R code and submitting batch jobs in R.

*Hui Zhang is principal research software engineer with IU Research Technology. Jefferson Davis is a software consultant with Research Analytics. Scott Michael is the manager of the Research Analytics group within UITS.*

**Friday, December 5, 2014, 2-4 pm**

Social Science Research Commons Grand Hall  
Woodburn Hall 200